

PCT

INTERNATIONAL PRELIMINARY EXAMINATION

(PCT Article 36 and Rule 70)

REC'D	2	2	OCT	2004	
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Applicant's or agent's file reference 77.357/BE		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
			International filin 08.08.2003	g date (day/month/year)	Priority date (day/month/year) 09.08.2002			
Internation A61K35	onal Patent (5/78	Classification (IPC) o	r both national classifi	ication and IPC				
Applicant HIDVE(et al. · · · ·	,	een and a second	enter have som at alle and a second of the s			
1. Th Au	is internation	onal preliminary ex is transmitted to t	kamination report he he applicant accord	as been prepared by this ling to Article 36.	International Preliminary Examining			
2. Thi	is REPOR	T consists of a tota	al of 6 sheets, inclu	ding this cover sheet.				
⊠				S, i.e. sheets of the desc ort and/or sheets contain nistrative Instructions un	cription, claims and/or drawings which have ing rectifications made before this Authority			
The		es consist of a tota			uo. u.o., o.,,.			
3. ' Thi	s report co	ntains indications	relating to the follow					
1	_		relating to trie lolloy	ving items:				
ı H	_	isis of the opinion						
 Jij	_	•	foninion with resear					
IV		ck of unity of inver	ri opinion with regar	on with regard to novelty, inventive step and industrial applicability				
٧	⊠ Re	asoned statement		(ii) with regard to novelt	y, inventive step or industrial applicability;			
VI		rtain documents c						
VII	☐ Ce	rtain defects in the	e international appli	cation				
VIII	I□ Ce	rtain observations	on the internationa	l application	t sept. The section of the section o			
ate of sub	bmission of	the demand		Date of completion	of this report			
24.02.2004				21.10.2004				
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- M	D-80298	n Patent Office Munich		Pilling S	Pilling, S			
	Tel. +49 Fax: +49	89 2399 - 0 Tx: 523 89 2399 - 4465	656 epmu d					
				Telephone No. +49	89 2399-8461			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/HU 03/00065

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ι.	Da:	SIS	OΙ	ıne	rep	Οſŧ

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages				
	1-2	0	as originally filed			
. .,	Cla	ims, Numbers	en de la composition			
	1-10	0 .	received on 16.09.2004 with letter of 16.09.2004			
	Dra	wings, Sheets				
	1/17	7-17/17	as originally filed			
2.	Witl lanç	h regard to the langu guage in which the int	age, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.			
	The	ese elements were av	railable or furnished to this Authority in the following language: , which is:			
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).			
		the language of pub	lication of the international application (under Rule 48.3(b)).			
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under .3).			
з.	Witl inte	h regard to any nucle rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:			
		contained in the inte	rnational application in written form.			
		filed together with th	e international application in computer readable form.			
		furnished subsequer	ntly to this Authority in written form.			
		ntly to this Authority in computer readable form.				
	☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
•		The statement that t listing has been furn	the information recorded in computer readable form is identical to the written sequence ished.			
4.	The	amendments have r	resulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			

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5.		This report has been establi- been considered to go beyo	shed as	s if (some o	f) the amenas filed (Rule	dments had not been made, since they have e 70.2(c)).	
		(Any replacement sheet con report.)	taining	such amen	dments mu	st be referred to under item 1 and annexed to this	
6.	Add	ditional observations, if neces	sary:				
Ш	. No	n-establishment of opinion	with re	gard to no	velty, inver	ntive step and industrial applicability	
	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:						
		the entire international applic	cation,				
	☒	claims Nos. 9,10					
		because:					
		the said international applica does not require an internation	tion, or	the said cla eliminary ex	aims Nos. 9 camination (,10 relate to the following subject matter which (specify):	
		see separate sheet					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):						
		the claims, or said claims No could be formed.	s. are s	so inadequa	ately suppor	rted by the description that no meaningful opinion	
		no international search repor	t has b	een establis	shed for the	said claims Nos.	
2.	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:						
		the written form has not beer	n furnis	hed or does	not comply	y with the Standard.	
		the computer readable form	has not	been furnis	shed or doe	es not comply with the Standard.	
V.	Rea cita	tions and explanations sup	porting	(2) with reg	jard to nove ement	elty, inventive step or industrial applicability;	
1.	Stat	ement		,		e topta see	
	Nov	elty (N)	Yes: No:	Claims Claims	1,3 6		
	Inve	ntive step (IS)	Yes: No:	Claims Claims	1,3 6		
	indu	strial applicability (IA)	Yes: No:	Claims Claims	1,3,6		
2.	Cita	tions and explanations					

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see separate sheet

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Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1. Claims 9 to 10 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1 (iv) PCT. Consequently, no international preliminary examination will be made in respect of these claims (Article 34(4)(a)(i) PCT).

Re Item V

Reasoned statement under Rule 66~2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2. The documents cited in the International Search Report (ISR) are consecutively numbered DI to D6 in the order of their listing. If not indicated otherwise, reference is made to the passages cited in said ISR.

Novelty

- 3. None of the presently available prior art documents discloses the use of fermented wheat germ extract for treating/preventing <u>arthritis</u>. Thus, the subject matter of Claims 1 and 3 is new (Article 33(2) PCT).
- 4. The term antiinflammatory agent in Claim 6 appears vague and seems to encompass antioxidant compounds such as vitamin C. Document D2 discloses a pharmaceutical composition comprising a fermented wheat germ extract (Avemar®) and vitamin C (see the abstract). Document D3 discloses a pharmaceutical composition comprising a fermented wheat germ extract (Avemar®) and vitamin C (see Figure 4). Hence, the subject matter of Claim 6 lacks novelty in view of the disclosure of either document D2 or D3 (Article 33(2) PCT).

Inventive Step

5. Document DI discloses the preparation of anti active-oxygen agents by roasting wheat germ and mixing with koji mould/yeast and then fermenting. It is disclosed that the agents may be used "50-500 mg/day as anti-inflammatory agents" (see the abstract). Taking into account (a) the present experimental evidence of

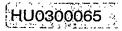
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INTERNATIONAL PRELIMINARY International application No. PCT/HU 03/00065 EXAMINATION REPORT - SEPARATE SHEET

successful treatment of arthritis in the present specification and (b) the arguments of the Applicant that arthritis is resistant to treatment and that many antiinflammatory agents have no effect in treating arthritis and (c) the large number of potential antiinflammatory compounds that could be tested, the IPEA accepts inventive step in respect of present Claims 1 and 3. In this regard, there appeared to be no clear motivation in the prior art towards using the antioxidant/antiinflammatory compositions of document D1 for treating arthritis. On the basis of the presently available prior art, the expectation of success of such a treatment would appear to have been low.

- 6. Thus, the subject matter of Claims 1 and 3 is inventive (Article 33(3) PCT).
- 7. It may also be helpful to note that even in the event that the further active ingredient of Claim 6 was to be distinguished from the disclosure of documents D2 or D3, e.g. by restriction to non steroidal anti-inflammatory agents or diclophenac, that such a restriction would be unlikely to render the subject matter of this claim inventive. In this regard, it would appear that combining a known anti-inflammatory agent (see D1) with a further known antiinflammatory agent would not require inventive ability.





Amended claims

- 1. Use of a fermented wheat germ extract (Avemar®) for the manufacture of a medicament for treating or preventing or alleviating arthritis.
- 2. The use according to claim 1 wherein arthritis is rheumatoid arthritis.
- 3. Use of a fermented wheat germ extract (Avemar®) and an anti-inflammatory agent for the manufacture of a medicament for treating or preventing or alleviating arthritis.
- 4. The use according to claim 3 wherein the anti-inflammatory agent is a non-steroidal anti-inflammatory agent.
- 5. The use according to claim 5 wherein the non-steroidal anti-inflammatory agent is diclophenac.
- 6. A pharmaceutical composition comprising an effective amount ο£ fermented wheat germ extract (Avemar®) combination with an anti-inflammatory agent and а pharmaceutically acceptable carrier.
- 7. The pharmaceutical composition according to claim 6 wherein the anti-inflammatory agent is a non-steroidal anti-inflammatory agent.
- 8. The pharmaceutical composition according to claim 7 wherein the non-steroidal anti-inflammatory agent is diclophenac.
- 9. A method of treating or preventing or alleviating arthritis in a mammal including human comprising administering to said mammal, in which such treatment or prevention or alleviation is desired, an effectice amount of fermented wheat germ extract (Avemar®).
- 10. The method of claim 9 comprising further administering an anti-inflammatory agent.

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